

Antique Boat Museum

Johnson Sea-houses for '55

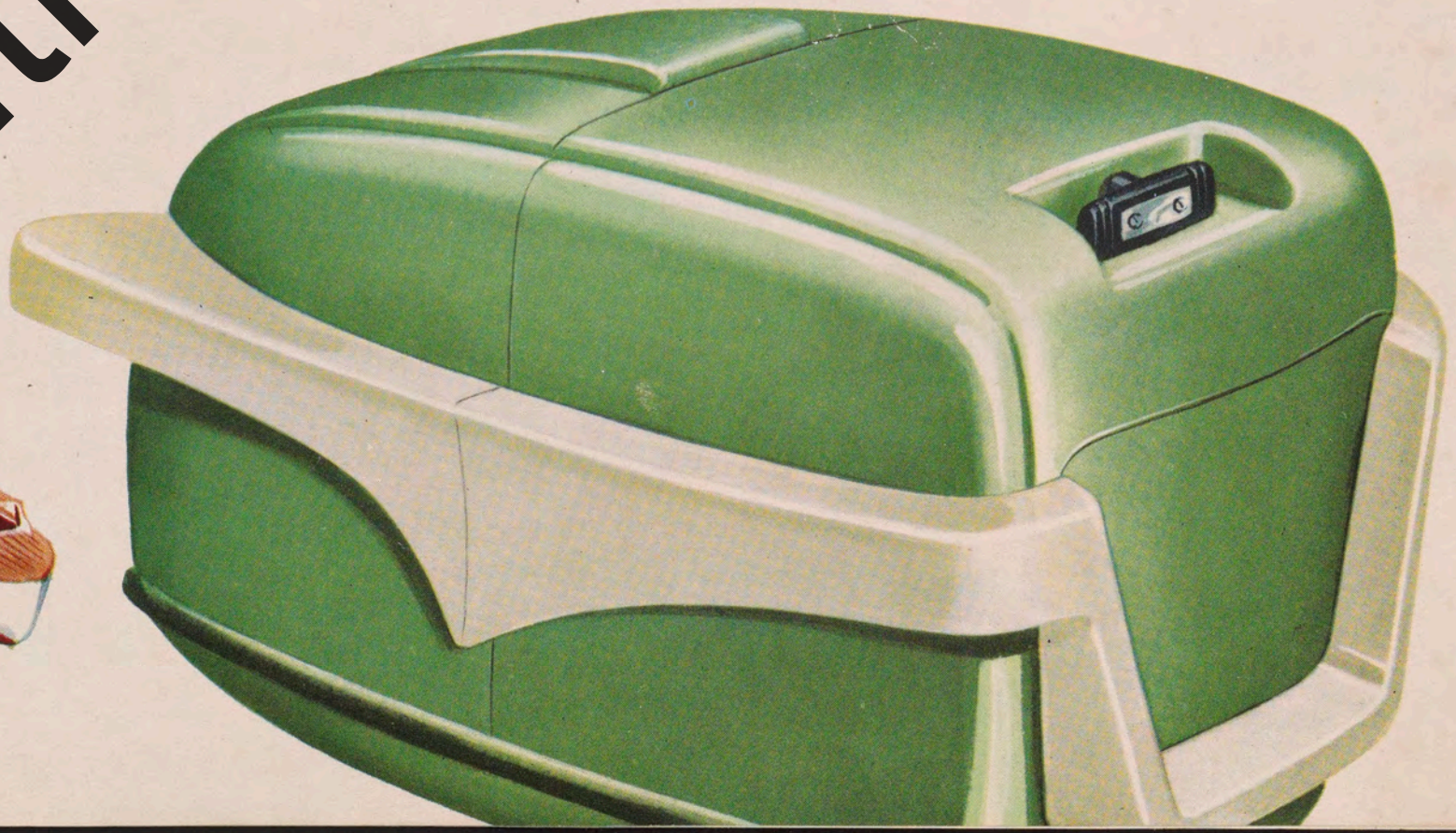
QUIET



QUIET



QUIET



NOW... THE BIG JOHNSON SEA-HORSES ARE

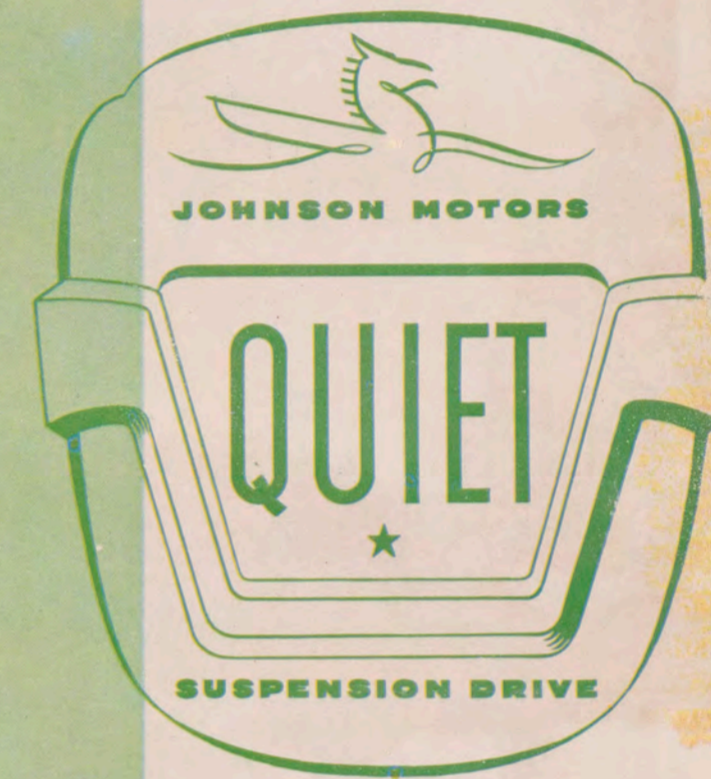
Antique Boat Museum



In the entire field of outboard motor manufacturing, there is no finer product than the Johnson Sea-Horse. Today, with historic achievements in engineering and design, Johnson Motors presents its 1955 line of motors with pride.

For these are the truly quiet outboard motors. Now, with elimination of objectionable noise and vibration, Johnson Sea-Horses add entirely new pleasure, entirely new comfort, to the great Canadian sport of boating. These are the quietest running, easiest driving, smoothest riding Sea-Horses ever developed . . . a new high in outboard quality!

It all began with development of *Suspension Drive*, the only real way to eliminate the nuisance of vibration. Last year, this idea produced the nationally popular Sea-Horse 5½ . . . first outboard motor ever to win a citation from the National Noise Abatement Council.



Now, with major improvements, Suspension Drive is applied to the big-power motors. The Sea-Horse 10, the Electric-Starting 25 and the Standard 25—All are quiet motors—an amazing engineering achievement at Johnson Motors!

There is no longer any excuse for noisy outboard motoring. When you buy a Johnson Sea-Horse in 1955, you'll have every proven and tested outboard improvement, plus quiet, vibration-free performance and DEPENDability.

In 1955, there's a five-motor Sea-Horse line—for fishing, for pleasure, for family cruising or for rugged commercial work. As in the past, you can expect the same high degree of slow-to-high-speed smooth action, plus the sturdy construction that characterizes the world-famed Sea-Horse. Thousands of satisfied owners will tell you: "There is no finer outboard motor made!"



- Electric Starting (also equipped for manual starting)
- Suspension Drive
- Quiet . . . and Vibration-Free
- Two-Stage Air Intake Silencer
- Exhaust Relief Silencer
- Sealed-In Powerhead
- Up-and-Off Motor Hood . . . New and Improved
- Smooth Power-Flow from slow trolling up to 30 mph.
- Full Gear-Shift—Forward, Neutral, Reverse
- Twist-Grip Speed Control
- 5-Gallon Mile-Master Fuel System (included with the motor)
- Complete New Styling
- Fitted for Ship-Master Remote Control



Waterskiing packs a real thrill when the Johnson team of POWER, QUIET and ELECTRIC-STARTING is at your very fingertips! (Flying disc skiing is shown here.)

The unbeatable combination of quiet and big power is yours in this great electric-starting motor. The motor is actually *isolated* with rubber cushions, to reduce noise and vibration. This is the improved *suspension drive* principle. Isolation is complete at both low and high speeds . . . and throughout the speed range. Intake silencer, exhaust relief silencer, cushioned mounting system, and complete sealing-in of the power head make this possible. The result . . . smoother, quieter, more comfortable outboarding . . . with the same world-famed *DEPENDability* always built by Johnson!

ELECTRIC
25
STARTING

Quiet...and Electric Starting, Too!

SEA-HORSE

In just one year this motor has won a firm place in the heart of the outboard-cruiser man . . . and his family! The reason is simply that this great package of Johnson-engineered power makes driving your boat just *like driving your car!* Electric Starting made this the "automatic outboard" last year. *AND NOW*, with the addition of *QUIET*, the Electric Starting Sea-Horse 25 gives outboarding entirely new dimensions of convenience, luxury and comfort. This is the motor that has taken the country by storm! This is the famous electric starting "25," with all the finest features ever developed by Johnson Motors built right into the motor . . . at your command!

For specifications and complete construction features, see back cover.

Antique Boat Museum



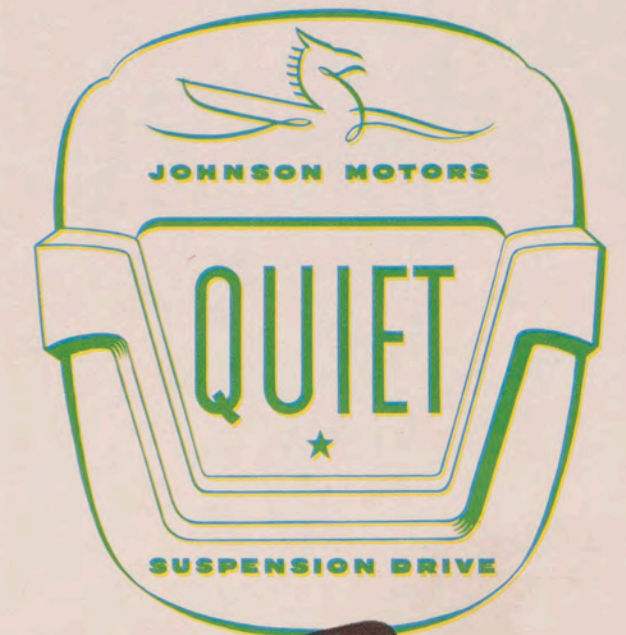
SEA-HORSE

25

Brilliant Performance... All Ways!

Big in performance, big in dependability, big in speed, big in economy . . . and now that the nuisance of noise and vibration has been eliminated, the rugged 25 horse-power motor will continue its record of high demand across the nation. The Sea-Horse 25 is a favorite on the waterways of the world . . . for outboard cruisers, for commercial fishing boats, for swift, sleek runabouts . . . for any man who wants to *hear* . . . and *drive* . . . and *see* this great favorite. Then you'll know. Your boat deserves this Sea-Horse . . . an outboard you can depend upon for brilliant performance . . . all ways!

For specifications and complete construction features, see back cover.



- Suspension Drive
- Quiet . . . and Vibration-Free
- Two-Stage Air Intake Silencer
- Exhaust Relief Silencer
- Sealed-In Powerhead
- Up-and-Off Motor Hood . . . New and Improved
- Smooth Power-Flow from slow trolling up to 30 mph.
- Full Gear-Shift—Forward, Neutral, Reverse
- Twist-Grip Speed Control
- 5-Gallon Mile-Master Fuel System (included with the motor)
- Complete New Styling
- Fitted for Ship-Master Remote Control



Johnson Motors can now give you a Big-Power motor with *Quierness* and *Smoothness* built right into the motor . . . an achievement never before possible in outboard history. This new Sea-Horse 25 is equipped with improved *Suspension Drive*, which actually *floats* the motor on rubber cushions, *isolating* it from the boat . . . and thus virtually eliminating the nuisance of excessive noise and vibration. And, what's more, this isolation is *Full-Range*, even at the lowest, or the highest speeds! Cushion-mountings, intake silencer, exhaust relief silencer and the sealed-in powerhead all combine to give you this history-making motor . . . built to the usual Johnson Motors standard of *DEPENDability* and rugged performance!



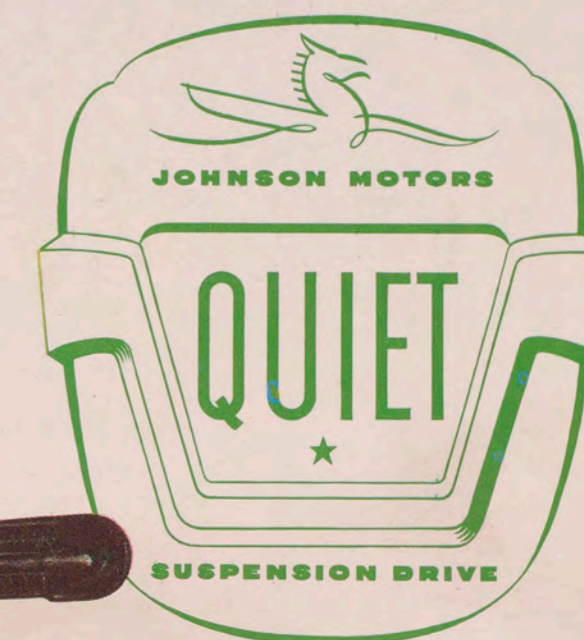
SEA-HORSE

10

All Purpose Power!

Here's the most *versatile* Sea-Horse ever made . . . a motor that wears a different "hat" for any occasion. It is truly an all-purpose package of splash power in a compact unit. Fishermen call it "the finest fishin' motor a man can carry." High torque power gives you the thrill of flashing getaway in light to medium runabouts. *Today*, with elimination of nuisance noise and vibration, this all 'round favorite is ready for another record-breaking sales career in 1955. And, remember, when you buy a Sea-Horse 10, you are getting *all* the major advantages of the largest motors made . . . but good engineering and design have packed these features into a smaller, more *economical* unit!

For specifications and complete construction features, see back cover.



- Suspension Drive
- Quiet . . . and Vibration-Free
- Air Intake Silencer
- Exhaust Relief Silencer
- Sealed-In Powerhead
- Improved Up-and-Off Motor Hood
- Smooth Power-Flow
- Full Gear-Shift—Forward, Neutral, Reverse
- Twist-Grip Speed Control
- 5-Gallon Mile-Master Fuel System (included with the motor)
- Fitted for Ship-Master Remote Control

Quietness and Smoothness are the headlines in 1955 when you're talking about the able new Sea-Horse 10. This motor has *more* big-power advantages than some of the largest outboards made today. Naturally, Johnson Motors has equipped this Sea-Horse with *Suspension Drive*, and isolation is complete throughout the speed range. By actually *floating* the motor on rubber cushions, objectionable noise and high vibrations have been eliminated. And you still have all the favorite features of flashing performance . . . speed . . . smooth acceleration . . . sure-slow trolling . . . but *today*, you can have these features *quietly!*



The Sea-Horse 10 is especially fine at slow trolling speeds . . . and, when you're ready to head for home, it has the power to GO, too.



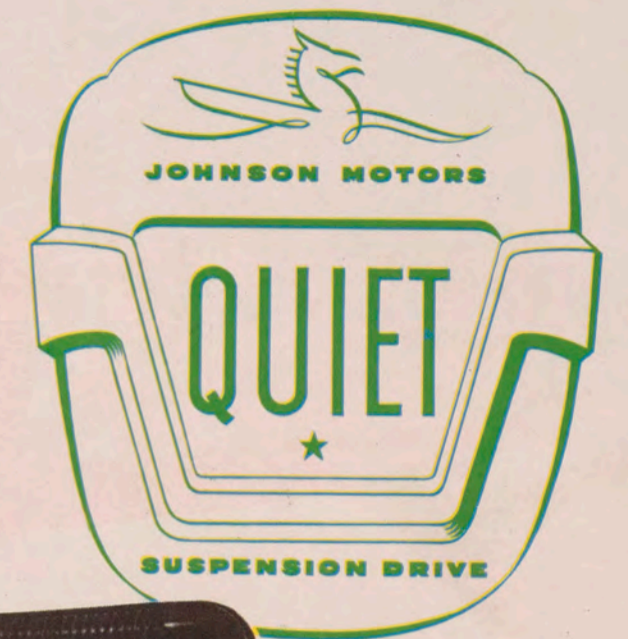
SEA-HORSE

5 1/2

Most Popular Outboard in History!

This is the outboard motor that made history last year. More people bought the Johnson Sea-Horse 5 1/2 last year than any other model outboard motor made by anyone in the entire world . . . by far! After all, this was a really quiet outboard motor . . . an achievement that changed the entire boating sport in just one summer. Now, with further improvements, the Sea-Horse 5 1/2 is an even better buy! It has virtually every important feature of the largest motors incorporated into a sweet, small, lightweight package of *DEPENDABLE* power. *Ideal* for fishing, *ideal* for pleasure craft, *ideal* for comfort, portability and ease of handling.

For specifications and complete construction features, see back cover.



- Suspension Drive
- Quiet . . . and Vibration-Free
- Air Intake Silencer
- Exhaust Relief Silencer
- Quiet Gears
- Smooth Power-Flow
- Full Gear-Shift—Forward, Neutral, Reverse
- Twist-Grip Speed Control
- Improved Up-and-Off Motor Hood
- 3-Gallon Mile-Master Fuel System (included with the motor)
- Now . . . Fitted for Ship-Master Remote Control



Beach outings and family cruises can be more fun when boats are powered by quiet Johnson Sea-Horses. Cruiser, runabout or fishing boat . . . they all sound better, perform better with Sea-Horses at work.

The sound principle of *Suspension Drive* is the feature that introduced an entirely new dimension to boating last year . . . *quiet!* Resilient cushions actually isolate this motor from your boat, thus effectively reducing a major source of noise and vibration—the boat hull itself, a virtual sounding board. Then, with the addition of efficient air intake and exhaust relief silencers, the sharp, explosive noises so characteristic of outboards, were reduced. Now . . . in 1955 . . . the Sea-Horse 5 1/2 gives you *more* modern improvements than any other outboard motor in the world in its horse-power class!



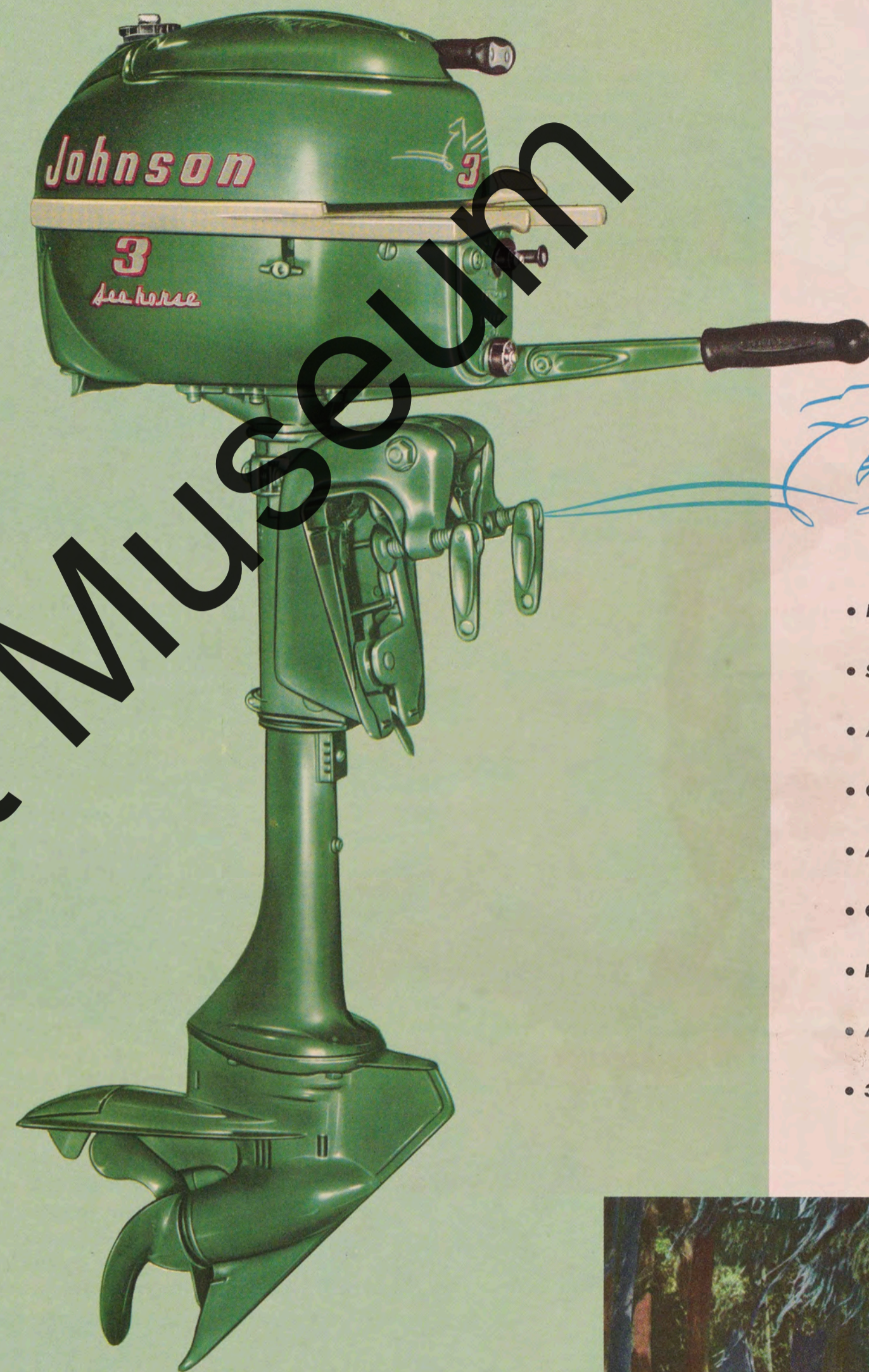
SEA-HORSE

3

Little, Light and Amazing!

This is the little outboard everyone loves, because it's light and economical . . . and, what's more, it'll take you *anywhere* you can float a boat! Weighing only 32 pounds, it's an outboard anyone can carry. And, with amazing *Angle-Matic Drive*, it rides roughshod right through shallows . . . through weed-loaded waters that would defeat the average outboard! No worry about underwater obstructions either! Fathers find this an excellent gift for growing boys and girls . . . to get them started *right* in boating. Fishermen, hunters, children, and resort owners find the Sea-Horse 3 the perfect answer to the problem of sturdiness and light weight combined in an economical small motor . . . simple to operate . . . and easy to stow away.

For specifications and complete construction features, see back cover.



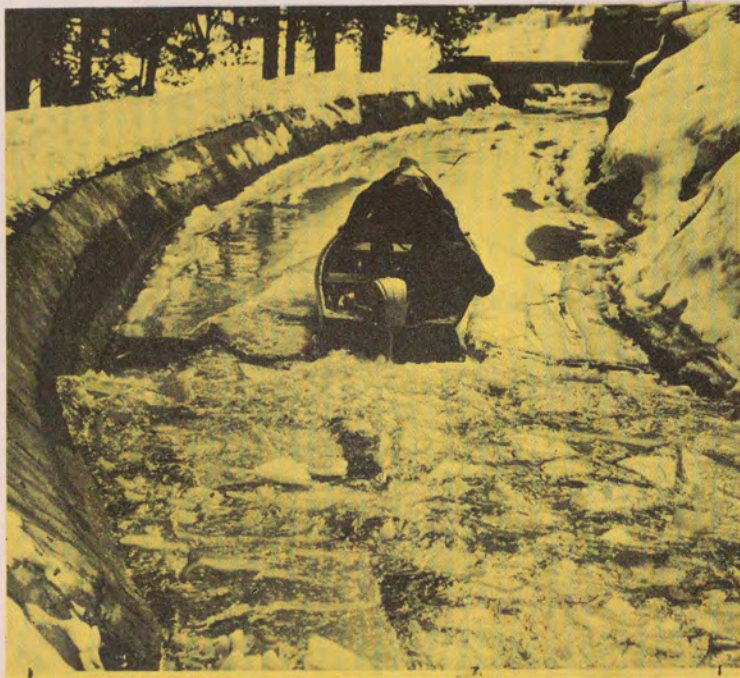
- Light . . . Rugged
- Smooth, Quiet Acceleration
- Air Intake Silencer
- Quiet Gears
- Angle-Matic Drive
- Only 32 Pounds
- Full Pivot Reverse
- Alternate Firing Twin
- 3 Solid Horsepower

This year, the "Littlest Sea-Horse" will be even quieter than ever before! Now, quiet gears reduce nuisance noise even more. And when you want a husky 3 horsepower packed into a motor that even a child can carry, this is *your* outboard. It fits right in the trunk of your car . . . and is a favorite as an emergency auxiliary because it can be stowed away, and still be called upon to do a year-after-year rugged, *DEPENDable* job. Fishermen don't have to be sold . . . they *know* this motor plows through weeds and shallows at a sure-troll so slowly, so quietly, that the fish never know you're coming through!

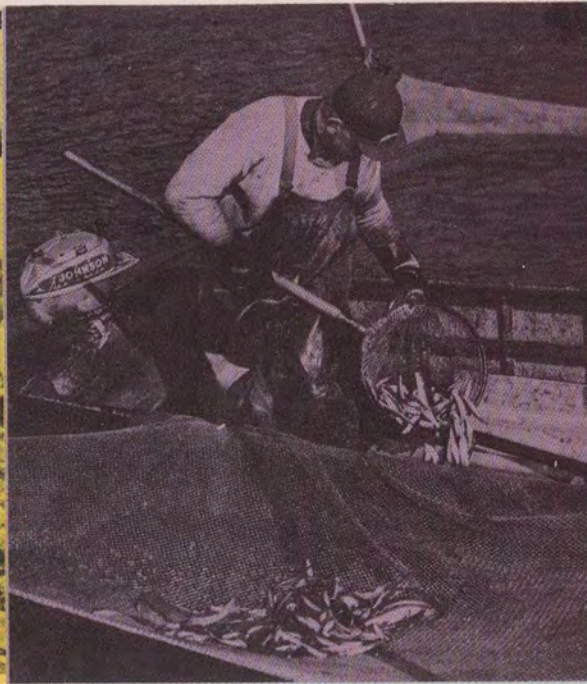


The wildest bass and the wariest bluegill can't escape this team of fishermen, because they've got a Sea-Horse 3 to take them ANYWHERE the fish can hide!

Believe it or not . . . a Sea-Horse being used as an ice-breaker on a West Coast canal.



Low upkeep means money in the bank to this coastal fisherman.

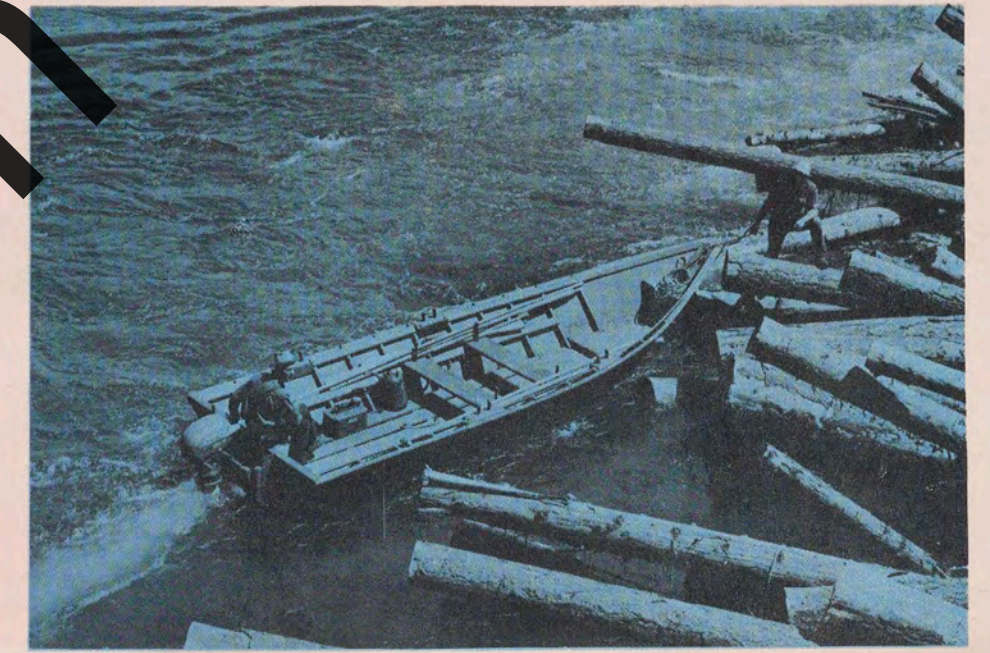


An oil operation uses the Sea-Horse through miles of bayous and rough swamplands.

The waterways of the Netherlands find Johnson Sea-Horses on duty hauling tons of vegetable produce to market on barges.



Sea-Horses at work in the logging business.



ASK THE MEN WHO KNOW JOHNSON SEA-HORSE DEPENDABILITY!



Through the years, businessmen in all walks of life over the entire world have come to know and respect the outboard motor as a tool of major necessity. The motor they buy most often is the Johnson Sea-Horse. The reason for their choice is simple. *They must have DEPENDability.* In many cases, their very lives, as well as their businesses, are at stake. So they choose Johnson . . . and the number of them who have found the Sea-Horse best suited to their need is growing every day.

Sea-Horses brave the open seas, and the rocky shores. They creep through nearly impenetrable swamps . . . they ply canals of commerce . . . they fight the Amazon. Their sound is heard by elephants in the heart of Africa . . . and by Polar bears in the far North. The jobs they perform day after day, everywhere, are innumerable. This is the outboard motor . . . the Sea-Horse . . . flexible, maneuverable, portable, light, economical . . . and DEPENDable!



A dependable commercial fishing team—sturdy boat, and rugged Sea-Horse.



Lobsterman on Atlantic coast.

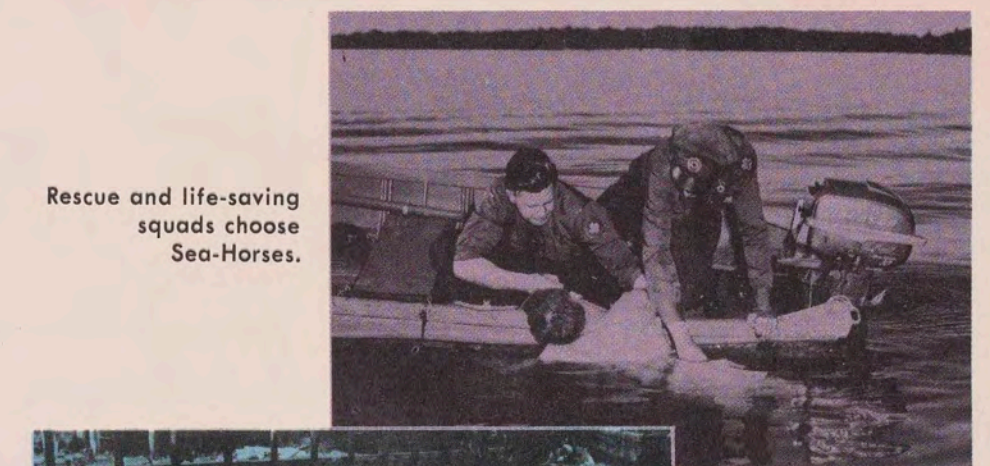
Dependability and long life make Sea-Horses ideal for patrol work.



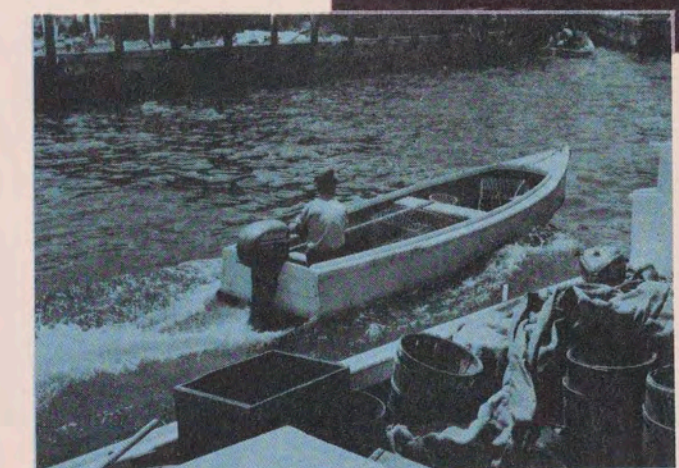
This list is representative of the commercial fields in which Sea-Horses perform today.

- | | | |
|----------|-------------------|--------------|
| Logging | Conservation | Research |
| Fishing | Patrol | Ice-Breaking |
| Oil | Rescue | Surveying |
| Lobsters | Vegetable Produce | Construction |
| Shrimp | Freight Movement | Trapping |
| Oysters | Resort Operation | Hunting |
| Rubber | Mail Delivery | Exploration |

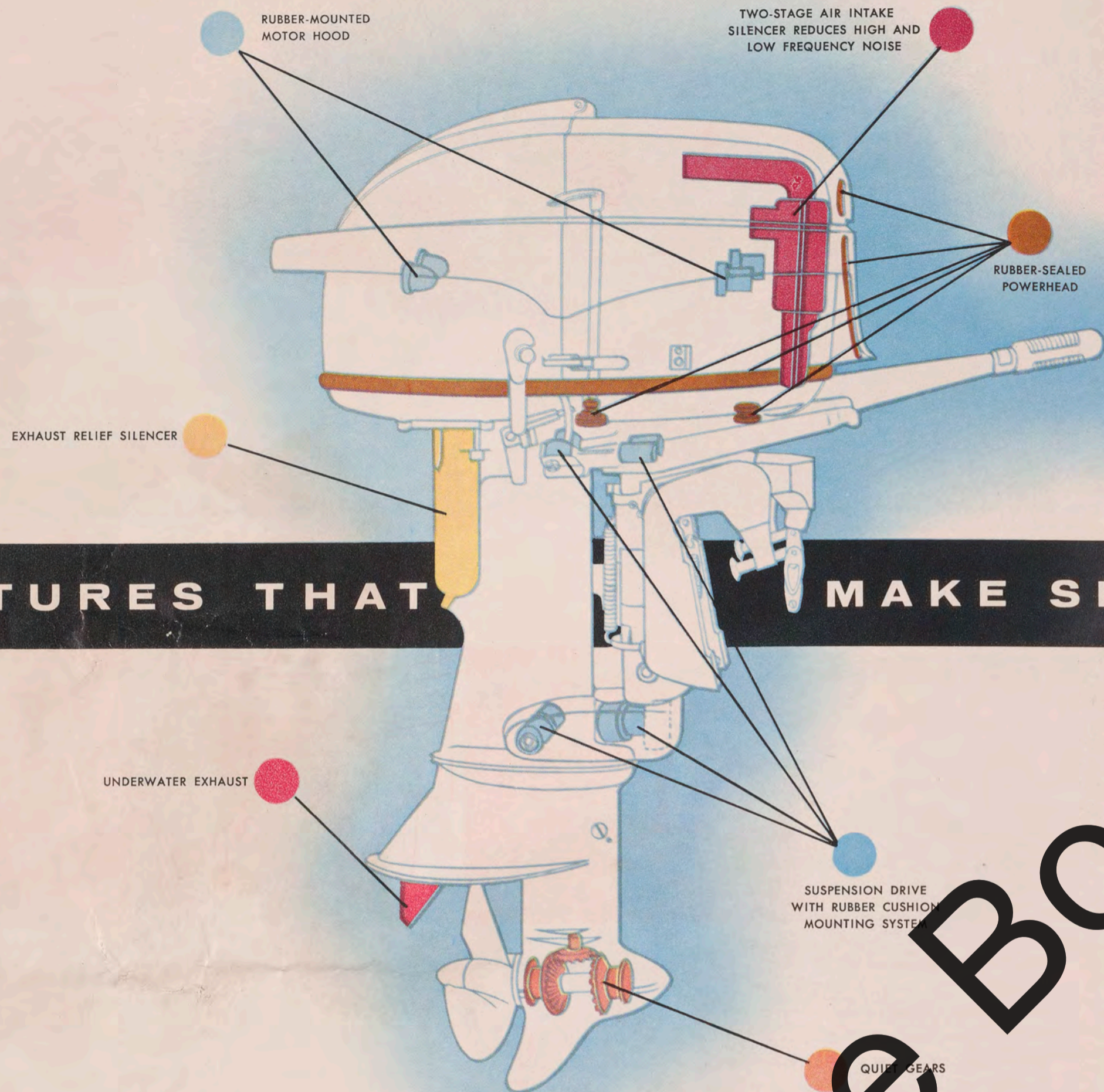
Sea-Horse DEPENDability is recognized by military men, too. Army, Navy, Air Force, and amphibious warfare specialists find plenty of jobs for Sea-Horses around the world.



Rescue and life-saving squads choose Sea-Horses.



When commercial fishermen buy an outboard, it has to be RIGHT.



FEATURES THAT

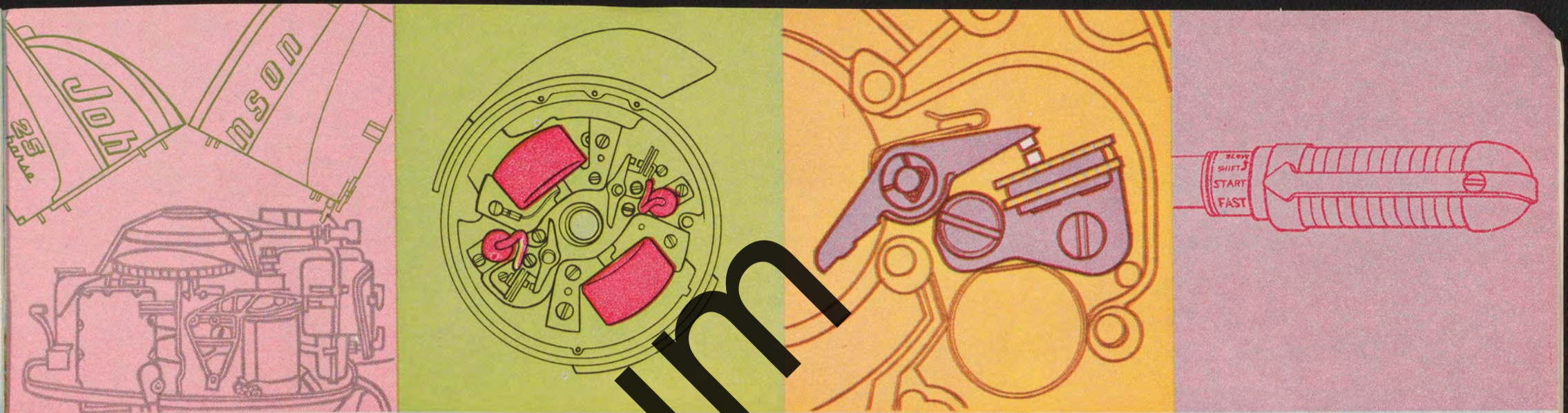
MAKE SEA-HORSES QUIET AND DEPENDABLE

FOUR-WAY SALT WATER PROTECTION FOR ALL SEA-HORSES NOW

- 1 • Corrosion-resistant aluminum alloy is used in all underwater and water-jacketed parts.
- 2 • A special chemical coating—Lyfanite—is added to all these parts to give added protection.

- 3 • A high-grade varnish is baked on all internal water-jacketed parts.
- 4 • All drive shafts and propeller shafts are made of stainless steel. All exposed springs are stainless steel, and all underwater screws are brass or stainless steel.

Scientific Tests Now Show That There Is No Longer Any Need to Flush Your Sea-Horse After Use In Salt Water.

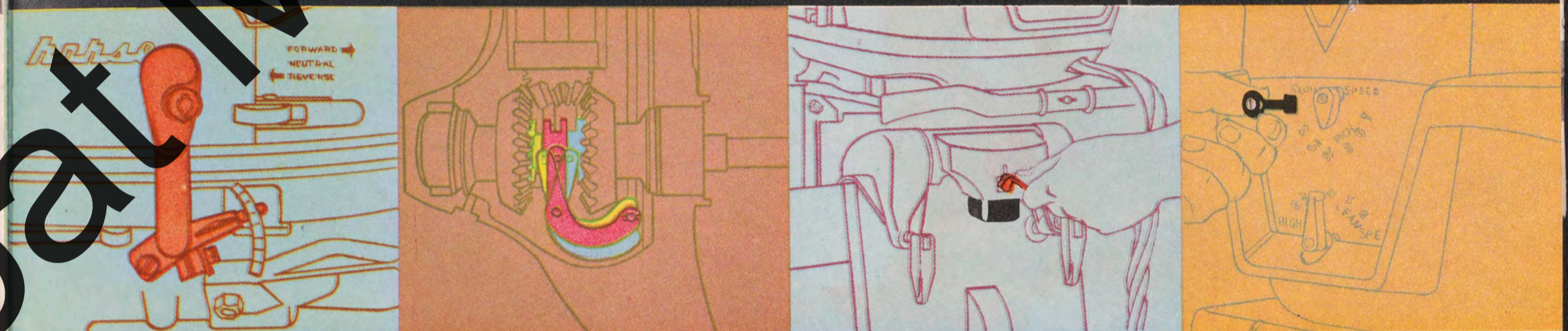


New convenience with *Up-and-Off* Motor Hood on Sea-Horses 25E, 25, 10 and 5½. No screws. No bolts. Seated in rubber-cushioned sockets to eliminate hood vibration. Simply flip two snap releases, and your hood is *Up* . . . and *Off* in seconds!

Hi-Power *Waterproof Magneto* has coils, 2 condensers, 2 automotive-type breakers . . . all in plastic and painted. Coils are molded in plastic, high tension leads are rubber covered and sealed. Waterproof rubber spark plug shields on all models. Sure, easy starting every time.

Efficient automotive-type breaker points are used in the ignition systems of Sea-Horses 3, 5½, 10, 25 and Electric-Starting 25 as assurance for easy starting. Oversize starting drums are also used in all models for the easiest possible manual starting.

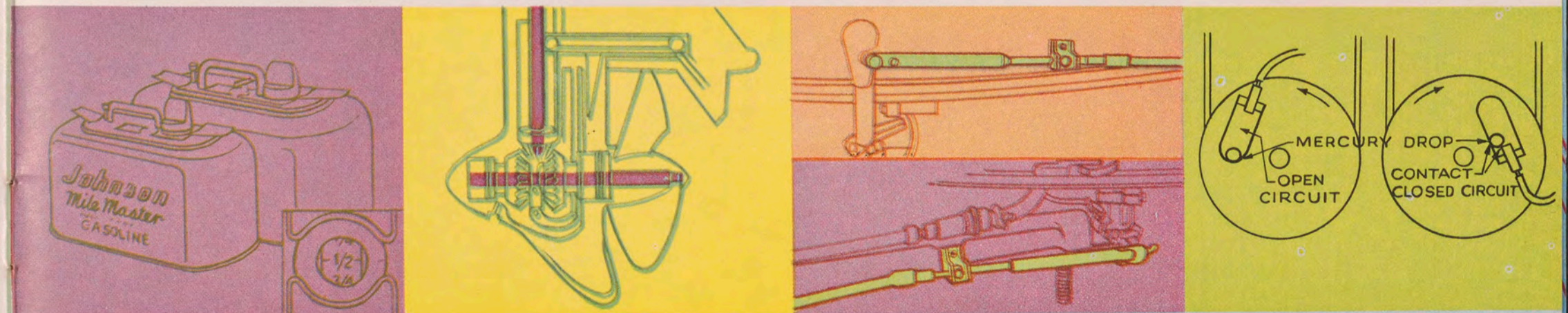
Twist-Grip Speed Control gives you full and smooth command of speed right on the steering handle . . . exactly where you need it. Spark and throttle are synchronized perfectly in this convenient control unit.



Full Gear-Shift is an outstanding feature of convenience on the Electric Starting 25, Standard 25, 10 and 5½. Full forward, neutral and reverse gears give your boat the highest degree of maneuverability. It's just like driving your car . . . but much simpler! The shift-lever itself is engineered for Ship-Master Remote Control, and gear action is smooth, positive and quiet. Gears are always in mesh. There is no clash, no clang, as these spiral bevel gears give you added quietness and strength.

A spring-loaded tilting lock on larger motors prevents tilting lower unit under ordinary running conditions, but allows unit to tilt and avoid breakage when hitting obstructions. A rubber-cushioned tilting stop protects motor and boat.

All *Sea-Horses* are now equipped with a regular automotive-type choke. The choke is highly efficient, and does not create flooding. It's one of many Johnson innovations which make *Sea-Horses* so easy to start.



Mile-Master Fuel System tanks are part of the motor when you buy the Electric Starting 25, Standard 25, 10 or 5½. Self-sealing connectors plug right into motor. No leak, no spill over. Automatically controlled fuel flow. Filter screen. Accurate fuel gauge.

Stainless Steel drive shafts and *Stainless Steel* propeller shafts are used in all *Sea-Horses*. The *Sea-Horse* is one of the few outboard motors today equipped with stainless steel shafts. Exposed springs, too, are *Stainless Steel*. You get more real value when you get a *Sea-Horse*!

If you want to drive your outboard just like you drive your car, you'll find *Sea-Horses* 25, Electric Starting 25, 10 and 5½ all equipped for remote control installation. Johnson-engineered Ship-Master Remote Control units fit quickly, easily . . . and operate smoothly, positively!

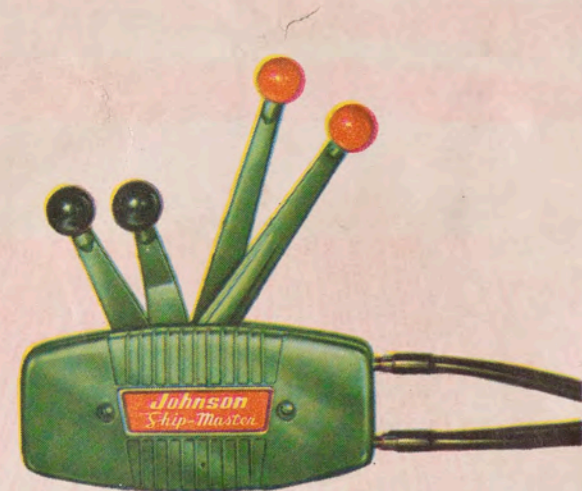
Automatic speed limitation—a safety feature on *Sea-Horse* 25s and 10s—prevents racing the motor in neutral. The Electric Starting 25 has an automatic cut-off switch which prevents starting with throttle advanced beyond the point of safety.

GENUINE JOHNSON SEA-HORSE ACCESSORIES...

ENGINEERED FOR USE WITH YOUR MOTOR...

SHIP-MASTER REMOTE CONTROL

Yours for *easier* outboarding is this remote control unit, designed *specifically* for the Electric Starting 25, the Standard 25, 10 and 5½ horsepower Sea-Horses. Have gear-shift and throttle control right at your fingertips, and have them anywhere you need them in your boat. Optional cable lengths up to 17 feet. Corrosion-resistant, tough and ready to team up with your motor for *instant action* . . . for *smooth and positive operation*. Hooks up in a few seconds. *It's made for your Sea-Horse . . . it's got to be good!*

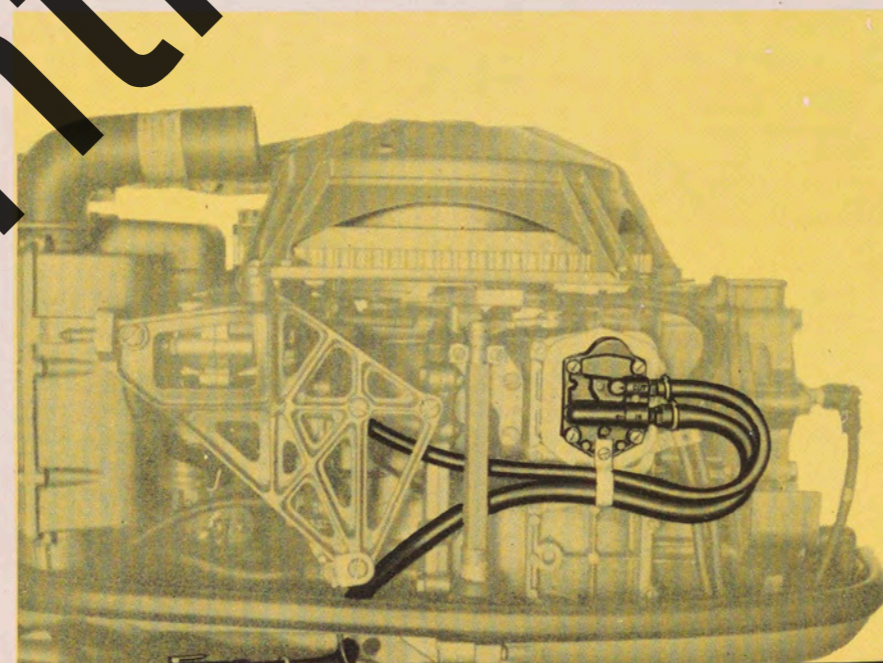
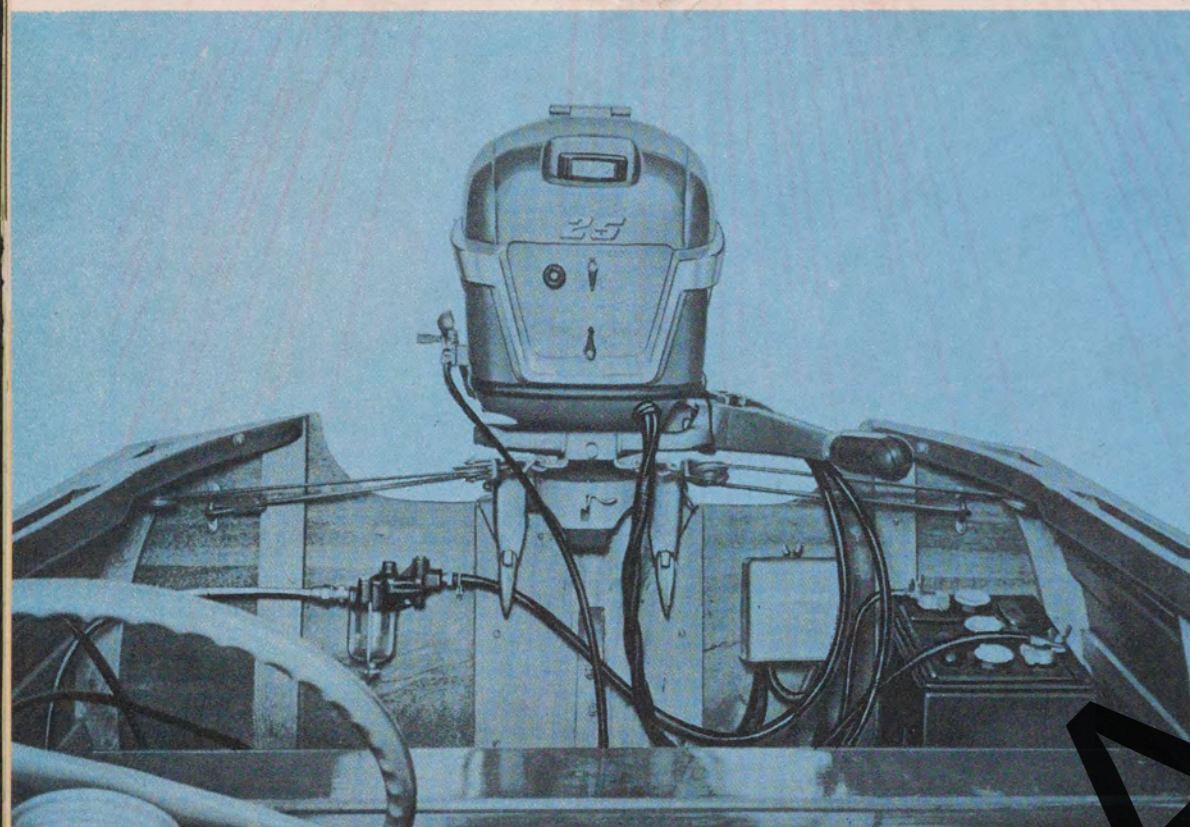


TWIN-CONTROL

It's easier with this dual unit of the *Ship-Master Remote Control*. Two shift levers and two throttles make it simple for you to control your motors in unison or separately. Most valuable for owners of outboard cruisers operating twin motors. *It's made for your Sea-Horse . . . it's got to be good!*

FUEL-MASTER SUPPLY SYSTEM

Designed for the man who needs *extra large fuel capacity*, this efficient supply system is engineered *specifically* for use with the Sea-Horse 25. Its prime purpose is to allow you to use gravity feed tanks in your boat. This perfected pump feeds fuel into your motor from one or more tanks installed in the boat. (Fuel tanks and tubing are not included in the fuel pump kit.) The kit includes a diaphragm-operated fuel pump assembly, filter primer unit with mounting flange, angle fuel line connector, flexible neoprene tubing with fittings. All parts are corrosion-resistant, and ready for rugged service. Look to *new horizons* . . . take longer cruises. Remember: *It's made for your Sea-Horse . . . it's got to be good!*

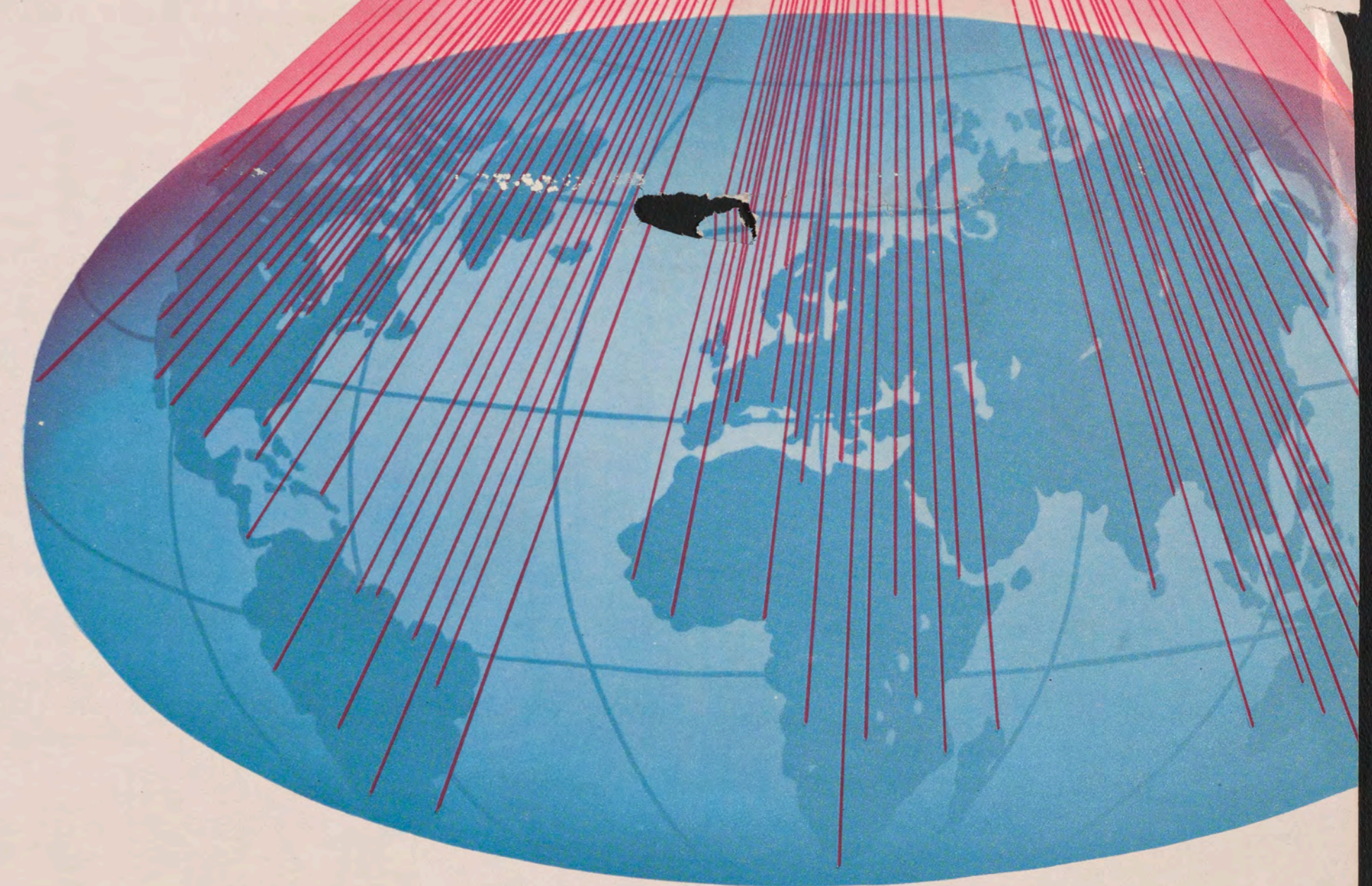


Standard of quality . . . and a world-wide reputation for *DEPENDability* start at the factory. But maintenance of the Johnson Motors standard and reputation is up to the thousands of Authorized Dealers who are equipped with parts . . . and are thoroughly trained to provide expert service for any Johnson Sea-Horse owner. *Wherever you go*, in this country, and around the world, over 4,000 dealers and 800 Master Service Stations are at your command.

Remember: With a Sea-Horse powering your boat, you are backed by a great team. When you buy a Sea-Horse, you buy much more than the product itself. You'll have precision-engineered outboard motor plus intelligent, trained service that you can rely upon—anywhere!



JOHNSON *Service* ANYWHERE IN THE WORLD




FEATURES OF JOHNSON SEA-HORSES FOR 1955

	Electric Starting SEA-HORSE 25	SEA-HORSE 25	SEA-HORSE 10	SEA-HORSE 5½	SEA-HORSE 3
SILENCING METHODS	Suspension Drive, 2-Stage Intake Silencer, Sound-Sealed Hood, Sealed-In Powerhead, Underwater Exhaust, Exhaust Relief Silencer, Quiet Gears.	Suspension Drive, 2-Stage Intake Silencer, Sound-Sealed Hood, Sealed-In Powerhead, Underwater Exhaust, Exhaust Relief Silencer, Quiet Gears.	Suspension Drive, Intake Silencer, Sound-Sealed Hood, Underwater Exhaust, Exhaust Relief Silencer, Sealed-in Powerhead, Quiet Gears.	Suspension Drive, Intake Silencer, Sound-Sealed Hood, Underwater Exhaust, Exhaust Relief Silencer, Quiet Gears.	Intake silencer, Underwater Exhaust, Partial Exhaust Relief Silencer, Quiet Gears.
BORE AND STROKE	Bore, 27/8"; Stroke, 23/4"	Bore, 27/8"; Stroke, 23/4"	Bore, 23/8"; Stroke, 17/16"	Bore, 115/16"; Stroke, 1½"	Bore, 11/16"; Stroke, 13/8"
PISTON DISPLACEMENT	35.7 cubic inches	35.7 cubic inches	16.6 cubic inches	8.84 cubic inches	5.28 cubic inches
GEAR RATIO	.572	.572	.572	.578	.609
MOTOR REVOLUTION	4000-5000 per minute	4000-5000 per minute	4000-5000 per minute	3500-4500 per minute	3500-4500 per minute
FUEL CAPACITY	Separate 5 gal. Mile-Master Tank	Separate 5 gal. Mile-Master Tank	Separate 5 gal. Mile-Master Tank	Separate 3 gal. Mile-Master Tank	3.9 pints
DRIVE	Gear Shift—Neutral-Fwd.-Rev.	Gear Shift—Neutral-Fwd.-Rev.	Gear Shift—Neutral-Fwd.-Rev.	Gear Shift—Neutral-Fwd.-Rev.	Full Pivot Reverse
REMOTE CONTROL FITTINGS	Yes	Yes	Yes	Yes	No
SPEED CONTROL	Twist-Grip Control	Twist-Grip Control	Twist-Grip Control	Twist-Grip Control	Single Lever Control
SPEED RANGE (Average)	Slow trolling to over 30 MPH	Slow trolling to over 30 MPH	Slow trolling to over 20 MPH	Slow trolling to over 12 MPH	Slow trolling to over 8½ MPH
WEIGHT	125 lbs. (Long model, 127 lbs.) Mile-Master Fuel Tank, 13 lbs.	110 lbs. (Long model, 112 lbs.) Mile-Master Fuel Tank, 13 lbs.	71½ lbs. (Long model, 69 lbs.) Mile-Master Fuel Tank, 13 lbs.	47 lbs. (Long model, 48 lbs.) Mile-Master Fuel Tank, 10 lbs.	32 lbs. (Long model, 32½ lbs.)
LENGTH	4715/32" (Long model 5215/32")	4715/32" (Long model 5215/32")	4313/32" (Long model 4813/32")	39½" (Long model 44½")	375/16" (Long model, 425/16")
WIDTH	137/32"	137/32"	113/16"	10¼"	9¾"
STERN HEIGHT	15" (Long model, 20")	15" (Long model, 20")	15" (Long model, 20")	15" (Long model, 20")	15" (Long model, 20")
PROPELLER	3-blade rubber-floated aluminum, 103/8" diameter, 12½" pitch	3-blade rubber-floated aluminum, 103/8" diameter, 12½" pitch	3-blade rubber-floated aluminum, 9" diameter, 8" pitch	2-blade aluminum brass bushed, semi-weedless design. 8" dia. 7¼" pitch	3-blade aluminum brass bushed, weedless design. 6½" dia., 5¾" pitch
SAE BRAKE H.P., CERTIFIED BY OBC*	25 horsepower	25 horsepower	10 horsepower	5½ horsepower	3 horsepower

FEATURES ENGINE TYPE: All models are Johnson Perfected Alternate Firing Twin-Cylinder. Automatic rewind Ready-Pull Starter in all models. Oversize Starting Drum on the Sea-Horse 25 for easy pull. Automotive-type choke in all models—no flooding. **CARBURETION:** Full range carburetion in all models—correct amount of fuel at all speeds; flow of fuel automatically regulated by low and high speed jets. **IGNITION:** All models have Hi-Power, waterproof, easily adjusted magneto with 2 coils, 2 condensers, 2 automotive type breakers. Platinum points on Sea-Horse 25 and E.S. 25. All models have water proof rubber Spark Plug Shields. **PROPELLER PROTECTION:** Spring Release Shock Absorber Drive in Sea-Horse 5½. Rubber floated propeller with pilot, and shear pin protection in all other models. **FUEL PROTECTION:** All models have fuel strainer and filter. In Sea-Horse 5½, 10, 25 and E.S. 25, fuel is filtered and strained as it leaves Mile-Master Fuel Tank. **AUTOMATIC SPEED LIMITATION:** On Sea-Horse 25 and E.S. 25. Prevents racing motor in neutral; unlimited in forward and reverse. **VERTICAL ADJUSTMENT:** Quick-Set Thrust Socket for instant correct vertical adjustment on Sea-Horses 3, 5½, 10, 25 and E.S. 25. **ENGINE ACCESSIBILITY:** Up-and-Off Motor Hood on Sea-Horses 5½, 10, 25 and E.S. 25.

MATERIALS GEARS: Hardened steel operating in hypoid oil for most efficient lubrication, all models. **CYLINDER BLOCK:** Lightweight aluminum, with wear-resistant cast-in iron sleeves. Removable head. **PISTONS:** Lightweight aluminum. Aircraft quality piston rings, all models. **CRANKSHAFT:** Drop-forged nickel molybdenum steel. Integrally counterbalanced. **CONNECTING RODS:** Silver-faced forged steel with needle bearings on Sea-Horse 10. Forged steel with retained needle bearings on Sea-Horses 25 and E.S. 25. Full floating wrist pin on Sea-Horses 10, 25 and E.S. 25. Sea-Horses 3 and 5½—aluminum alloy with bronze

bearing surfaces. **BEARINGS:** Hard bronze low friction bearings in Sea-Horses 3 and 5½. Needle bearings on end journals of Sea-Horse 10 crankshaft. Tapered, ball and needle bearings in Sea-Horses 25 and E.S. 25.

 *All ratings are SAE brake horsepower at 4000 rpm., certified by O.B.C.

Johnson Motors reserves the right to change construction, materials, or specifications without notice and without obligation. All weights are approximate.

JOHNSON MOTORS, PETERBOROUGH, CANADA

A Division of Outboard, Marine & Manufacturing Company, of Canada, Ltd.

ALSO MANUFACTURERS OF LAWN-BOY ROTARY POWER MOWERS
AND IRON HORSE GASOLINE ENGINES